

Translation

PATENT COOPERATION TREATY

PCT/FR2003/003034



526931

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MA2-02069PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FR2003/003034	International filing date (<i>day/month/year</i>) 15 octobre 2003 (15.10.2003)	Priority date (<i>day/month/year</i>) 26 octobre 2002 (26.10.2002)
International Patent Classification (IPC) or national classification and IPC H05B 3/86		
Applicant SAINT-GOBAIN GLASS FRANCE		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of _____ sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 22 décembre 2003 (22.12.2003)	Date of completion of this report 25 March 2004 (25.03.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FR2003/003034

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages _____ 1-9 _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims:
 pages _____ 1-10 _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the drawings:
 pages _____ 1/1 _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FR 03/03034

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

The present application fulfils the requirements set forth in PCT Article 33(2) and 33(3).

None of the documents cited in the search report discloses:

a transparent (glass) sheet having

- at least one non-transparent electrically conductive contact surface for the soldering of said sheet to a coupling part, characterised in that
- said contact surface has at least one cut-out portion in the region of the soldering location, whereby the soldering filler metal is visible, which configuration makes it possible to verify the soldering locations in a reliable manner, even when the soldering location is inside a composite glass panel that is to be soldered, optionally, by means of heat induction.

None of the cited documents discloses a cut-out portion in the glass sheet. On the contrary, said documents disclose couplings, electrical conductors or films placed on said

glass sheet:

EP 0 612 119: (D1: column 2, line 56 to column 3, line 85; claims 1-8) discloses a glass panel for motor vehicles that is provided with a printed structure of electrical conductors;

US 4 301 189: (D2: column 3, lines 1-16; claims 1-5) discloses a method for producing a printed circuit having a film for soldering;

US 5 299 726 (D3: column 2, lines 15-68; claims 1-16) discloses a method for point-soldering an electrical coupling part onto the surface of the glass sheet; and

EP 0 281 351 (D4: column 2, line 41 to column 3, line 41; claims 1-18; figures 2, 4-6 and 8) discloses a method for printing electrical parts onto a glass sheet using bus bars.

The following documents D5-D7 are cited in the description (pages 1 and 2) and disclose embodiments of composite glass panels that have no cut-out portions.

D5: DE 195 36 131 (claims 1-7);

D6: DE 198 29 151 (column 3, line 61 to column 4, line 18; claims 1-9; the figure);

D7: DE 44 06 240 (claims 1-4).

What is more, the cited documents, in combination, would not lead to the subject matter of the present application.